

# STN Search History

FILE 'HOME' ENTERED AT 12:25:55 ON 20 SEP 2003

- L1 3221 (RSV OR RESPIRATORY ADJ SYNCYTIAL RO PARAMYXOVIR#####) (S) (CHIMER## OR HETEROLOGOUS OR VARIANT OR RECOMBINANT OR SUBSTITUTION OR ADDITION OR INSERTION)
- 2 1560 L1 AND (GENOME OR ANTIGENOME OR GENE OR POLYNUCLEOTIDE OR DNA OR RNA) (P) (CHIMER## OR HETEROLOGOUS OR RECOMBINANT OR SUBSTITUTION OR ADDITION OR INSERTION)

(FILE 'HOME' ENTERED AT 12:25:55 ON 20 SEP 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 12:30:54 ON 20 SEP 2003

- L1 3221 S (RSV OR RESPIRATORY ADJ SYNCYTIAL RO PARAMYXOVIR#####) (S) (C
- L2 1560 S L1 AND (GENOME OR ANTIGENOME OR GENE OR POLYNUCLEOTIDE OR DNA
- L3 570 S L2 NOT PY>1994
- L4 68 S L3 AND (VACCINE OR IMMUNO#####)
- L5 40 DUP REM L4 (28 DUPLICATES REMOVED)
- L6 91 S L3 AND (RESPIRATORY (A) SYNCYTIAL OR PARAMYXO#####)
- L7 58 S L6 NOT L4
- L8 26 DUP REM L7 (32 DUPLICATES REMOVED)

F 40 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. on STN DUPLICATE

3

TI Prospects for a respiratory syncytial virus **vaccine**.

AU Klein M.H.; Ewasyshyn M.E.

SO Medecine et Maladies Infectieuses, (1993) 23/SEPC. ISS. NOV. (856-860).  
ISSN: 0399-077X CODEN: MMAIB5

L5 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2003 ACS on STN

TI Expression of the G glycoprotein gene of human respiratory syncytial virus in Salmonella typhimurium

AU Martin-Gallardo, Antonia; Fleischer, Edward; Doyle, Shawn A.; Arumugham, Rasappa; Collins, Peter L.; Hildreth, Stephen W.; Paradiso, Peter R.

SO Journal of General Virology (1993), 74(3), 453-8  
CODEN: JGVIAY; ISSN: 0022-1317

L5 ANSWER 8 OF 40 MEDLINE on STN

DUPLICATE 4

TI Antigenic diversity of respiratory syncytial viruses and its implication for immunoprophylaxis in ruminants.

AU Duncan R B Jr; Potgieter L N

SO VETERINARY MICROBIOLOGY, (1993 Nov) 37 (3-4) 319-41. Ref: 148  
Journal code: 7705469. ISSN: 0378-1135.

L5 ANSWER 10 OF 40 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 5

TI BOVINE RESPIRATORY SYNCYTIAL VIRUS FUSION PROTEIN GENE SEQUENCE ANALYSIS OF CDNA AND EXPRESSION USING A BACULOVIRUS VECTOR.

AU HIMES S R; GERSHWIN L J

SO J GEN VIROL, (1992) 73 (6), 1563-1567.  
CODEN: JGVIAY. ISSN: 0022-1317.

L5 ANSWER 12 OF 40 MEDLINE on STN

DUPLICATE 6

TI **Immunogenicity** of recombinant adenovirus-respiratory syncytial virus **vaccines** with adenovirus types 4, 5, and 7 vectors in dogs and a chimpanzee.

AU Hsu K H; Lubeck M D; Davis A R; Bhat R A; Selling B H; Bhat B M; Mizutani S; Murphy B R; Collins P L; Chanock R M; +

SO JOURNAL OF INFECTIOUS DISEASES, (1992 Oct) 166 (4) 769-75.  
Journal code: 0413675. ISSN: 0022-1899.

L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2003 ACS on STN

TI The 1A protein of respiratory syncytial virus is an integral membrane protein present as multiple, structurally distinct species

AU Olmsted, Robert A.; Collins, Peter L.

SO Journal of Virology (1989), 63(5), 2019-29  
CODEN: JOVIAM; ISSN: 0022-538X

L5 ANSWER 21 OF 40 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 10

TI DETECTION OF RESPIRATORY SYNCYTIAL VIRUS IN NASOPHARYNGEAL SECRETIONS BY DNA-RNA HYBRIDIZATION.

AU VAN DYKE R B; MURPHY-CORB M

SO J CLIN MICROBIOL, (1989) 27 (8), 1739-1743.  
CODEN: JCMIDW. ISSN: 0095-1137.

L5 ANSWER 22 OF 40 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

TI ALKALINE PHOSPHATASE FUSIONS TO THE RESPIRATORY SYNCYTIAL VIRUS F PROTEIN AS AN APPROACH TO ANALYZE ITS MEMBRANE TOPOLOGY.

AU MARTIN-GALLARDO A; DEICH R A; FIEN K A; METCALF B J; ANILIONIS A; PARADISO  
P R  
SO DNA (N Y), (1989) 8 (9), 659-668.  
CODEN: DNAADR. ISSN: 0198-0238.

L5 ANSWER 25 OF 40 MEDLINE on STN  
TI Recognition of respiratory syncytial virus fusion protein by mouse  
cytotoxic T cell clones and a human cytotoxic T cell line.  
AU Cannon M J; Bangham C R  
SO JOURNAL OF GENERAL VIROLOGY, (1989 Jan) 70 ( Pt 1) 79-87.  
Journal code: 0077340. ISSN: 0022-1317.

L5 ANSWER 26 OF 40 MEDLINE on STN DUPLICATE 11  
TI Evaluation in non-human primates of the safety, **immunogenicity**  
and efficacy of recombinant vaccinia viruses expressing the F or G  
glycoprotein of respiratory syncytial virus.  
AU Olmsted R A; Buller R M; Collins P L; London W T; Beeler J A; Prince G A;  
Chanock R M; Murphy B R  
SO VACCINE, (1988 Dec) 6 (6) 519-24.  
Journal code: 8406899. ISSN: 0264-410X.

L5 ANSWER 31 OF 40 MEDLINE on STN DUPLICATE 14  
TI Expression of the F glycoprotein of respiratory syncytial virus by a  
recombinant vaccinia virus: comparison of the individual contributions of  
the F and G glycoproteins to host immunity.  
AU Olmsted R A; Elango N; Prince G A; Murphy B R; Johnson P R; Moss B;  
Chanock R M; Collins P L  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (1986 Oct) 83 (19) 7462-6.  
Journal code: 7505876. ISSN: 0027-8424.

L5 ANSWER 32 OF 40 MEDLINE on STN  
TI Human and murine cytotoxic T cells specific to respiratory syncytial virus  
recognize the viral nucleoprotein (N), but not the major glycoprotein (G),  
expressed by vaccinia virus recombinants.  
AU Bangham C R; Openshaw P J; Ball L A; King A M; Wertz G W; Askonas B A  
SO JOURNAL OF IMMUNOLOGY, (1986 Dec 15) 137 (12) 3973-7.  
Journal code: 2985117R. ISSN: 0022-1767.

L5 ANSWER 33 OF 40 MEDLINE on STN DUPLICATE 15  
TI Resistance to human respiratory syncytial virus (RSV) infection  
induced by immunization of cotton rats with a **recombinant**  
vaccinia virus expressing the RSV G glycoprotein.  
AU Elango N; Prince G A; Murphy B R; Venkatesan S; Chanock R M; Moss B  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (1986 Mar) 83 (6) 1906-10.  
Journal code: 7505876. ISSN: 0027-8424.

L5 ANSWER 35 OF 40 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. on STN  
TI Respiratory syncytial virus. Brief review.  
AU Stott E.J.; Taylor G.  
SO Archives of Virology, (1985) 84/1-2 (1-52).  
CODEN: ARVIDF

- L8 ANSWER 1 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 1  
TI Development of nested PCR assays for detection of bovine  
**respiratory syncytial** virus in clinical samples.  
AU Vilcek, S.; Elvander, M. (1); Ballagi-Pordany, A.; Belak, S.  
SO Journal of Clinical Microbiology, (1994) Vol. 32, No. 9, pp. 2225-2231.  
ISSN: 0095-1137.
- L8 ANSWER 2 OF 26 MEDLINE on STN DUPLICATE 2  
TI Analysis of **respiratory syncytial** virus F, G, and SH  
proteins in cell fusion.  
AU Heminway B R; Yu Y; Tanaka Y; Perrine K G; Gustafson E; Bernstein J M;  
Galinski M S  
SO VIROLOGY, (1994 May 1) 200 (2) 801-5.  
Journal code: 0110674. ISSN: 0042-6822.
- L8 ANSWER 3 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 3  
TI Requirement of casein kinase II-mediated phosphorylation for the  
transcriptional activity of human **respiratory syncytial**  
viral phosphoprotein P: Transdominant negative phenotype of  
phosphorylation-defective P mutants.  
AU Mazumder, Barsanjit; Barik, Sailen (1)  
SO Virology, (1994) Vol. 205, No. 1, pp. 104-111.  
ISSN: 0042-6822.
- L8 ANSWER 4 OF 26 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. on STN  
TI Mutation of an RSV intronic element abolishes both U11/U12 snRNP binding  
and negative regulation of splicing.  
AU Gontarek R.R.; McNally M.T.; Beemon K.  
SO Genes and Development, (1993) 7/10 (1926-1936).  
ISSN: 0890-9369 CODEN: GEDEEP
- L8 ANSWER 5 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 4  
TI Bovine **respiratory syncytial** virus nucleocapsid  
protein expressed in insect cells specifically interacts with the  
phosphoprotein and the M2 protein.  
AU Samal, Siba K. (1); Pastey, Manoj K.; McPhillips, Thomas H.; Mohanty,  
Sashi B.  
SO Virology, (1993) Vol. 193, No. 1, pp. 470-473.  
ISSN: 0042-6822.
- L8 ANSWER 6 OF 26 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN  
TI ANTIGENIC DIVERSITY OF **RESPIRATORY SYNCYTIAL** VIRUSES  
AND ITS IMPLICATION FOR IMMUNOPROPHYLAXIS IN RUMINANTS  
AU DUNCAN R B (Reprint); POTGIETER L N D  
SO VETERINARY MICROBIOLOGY, (NOV 1993) Vol. 37, No. 3-4, pp. 319-341.  
ISSN: 0378-1135.
- L8 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Rescue of synthetic helper-dependent analogs of the genomic RNAs of  
**respiratory syncytial** virus and parainfluenza virus type  
3  
AU Collins, Peter L.; Stec, David S.; Kuo, Lili; Hill, Myron G., III;  
Camargo, Ena; Dimock, Kenneth; Grosfeld, Haim; Mink, Michael A.  
SO Vaccines 93, [Annu. Meet.], 10th (1993), Meeting Date 1992, 259-64.  
Editor(s): Ginsberg, Harold S. Publisher: Cold Spring Harbor Lab., Cold  
Spring Harbor, N. Y.  
CODEN: 59HUAJ

L8 ANSWER 8 OF 26 MEDLINE on STN DUPLICATE 5  
 TI Rescue of a 7502-nucleotide (49.3% of full-length) synthetic analog of **respiratory syncytial** virus genomic RNA.  
 AU Collins P L; Mink M A; Hill M G 3rd; Camargo E; Grosfeld H; Stec D S  
 SO VIROLOGY, (1993 Jul) 195 (1) 252-6.  
 Journal code: 0110674. ISSN: 0042-6822.

L8 ANSWER 9 OF 26 MEDLINE on STN DUPLICATE 6  
 TI Transcription of human **respiratory syncytial** virus genome RNA in vitro: requirement of cellular factor(s).  
 AU Barik S  
 SO JOURNAL OF VIROLOGY, (1992 Nov) 66 (11) 6813-8.  
 Journal code: 0113724. ISSN: 0022-538X.

L8 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 7  
 TI SYNTHESIS AND ANTIVIRAL EVALUATION OF N CARBOXAMIDINE-SUBSTITUTED ANALOGUES OF 1-BETA-D RIBOFURANOSYL-1 2 4-TRIAZOLE-3-CARBOXAMIDINE HYDROCHLORIDE.  
 AU GABRIELSEN B; PHELAN M J; BARTHEL-ROSA L; SEE C; HUGGINS J W; KEFAUVER D F; MONATH T P; USSERY M A; CHMURNY G N; ET AL  
 SO J MED CHEM, (1992) 35 (17), 3231-3238.  
 CODEN: JMCMAR. ISSN: 0022-2623.

L8 ANSWER 11 OF 26 MEDLINE on STN DUPLICATE 8  
 TI Bovine **respiratory syncytial** virus fusion protein gene: sequence analysis of cDNA and expression using a baculovirus vector.  
 AU Himes S R; Gershwin L J  
 SO JOURNAL OF GENERAL VIROLOGY, (1992 Jun) 73 ( Pt 6) 1563-7.  
 Journal code: 0077340. ISSN: 0022-1317.

L8 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN  
 TI Expression of both glycoprotein F and G of **respiratory syncytial** virus (RSV) in a single **recombinant** vaccinia virus  
 AU Ruan, Li; Zheng, Haoqiang; Xu, Shuichan; Wang, Shuangping; Tsao, Xu; Xie, Yanxiang; Zhu, Jiming  
 SO Bingdu Xuebao (1992), 8(2), 101-9  
 CODEN: BIXUEA; ISSN: 1000-8721

L8 ANSWER 13 OF 26 MEDLINE on STN DUPLICATE 9  
 TI Sequence analysis of the polymerase L gene of human **respiratory syncytial** virus and predicted phylogeny of nonsegmented negative-strand viruses.  
 AU Stec D S; Hill M G 3rd; Collins P L  
 SO VIROLOGY, (1991 Jul) 183 (1) 273-87.  
 Journal code: 0110674. ISSN: 0042-6822.

L8 ANSWER 14 OF 26 MEDLINE on STN DUPLICATE 10  
 TI Comparison of the virulence of wild-type thymidine kinase (tk)-deficient and tk+ phenotypes of vaccinia virus recombinants after intranasal inoculation of mice.  
 AU Taylor G; Stott E J; Wertz G; Ball A  
 SO JOURNAL OF GENERAL VIROLOGY, (1991 Jan) 72 ( Pt 1) 125-30.  
 Journal code: 0077340. ISSN: 0022-1317.

L8 ANSWER 15 OF 26 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN  
 TI COMPARISON OF THE VIRULENCE OF WILD-TYPE THYMIDINE KINASE (TK)-DEFICIENT AND TK+ PHENOTYPES OF VACCINIA VIRUS RECOMBINANTS AFTER INTRANASAL INOCULATION OF MICE

AU TAYLOR G (Reprint); STOTT E J; WERTZ G; BALL A  
SO JOURNAL OF GENERAL VIROLOGY, (1991) Vol. 72, No. JAN, pp. 125-130.

L8 ANSWER 16 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 11  
TI THE TWO OPEN READING FRAMES OF THE 22K MESSENGER RNA OF HUMAN  
**RESPIRATORY SYNCYTIAL** VIRUS SEQUENCE COMPARISON OF  
ANTIGENIC SUBGROUPS A AND B AND EXPRESSION IN-VITRO.  
AU COLLINS P L; GILL M G; JOHNSON P R  
SO J GEN VIROL, (1990) 71 (12), 3015-3020.  
CODEN: JGVIAI. ISSN: 0022-1317.

L8 ANSWER 17 OF 26 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN  
TI THE 2 OPEN READING FRAMES OF THE 22K MESSENGER-RNA OF HUMAN  
**RESPIRATORY SYNCYTIAL** VIRUS - SEQUENCE COMPARISON OF  
ANTIGENIC SUBGROUP-A AND SUBGROUP-B AND EXPRESSION INVITRO  
AU COLLINS P L (Reprint); HILL M G; JOHNSON P R  
SO JOURNAL OF GENERAL VIROLOGY, (1990) Vol. 71, No. DEC, pp. 3015-3020.

L8 ANSWER 18 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
TI PRIMARY PULMONARY MURINE CYTOTOXIC T LYMPHOCYTE SPECIFICITY IN  
**RESPIRATORY SYNCYTIAL** VIRUS PNEUMONIA.  
AU GUPTA R; YEWDELL J W; OLMSTED R A; COLLINS P L; BENNINK J R  
SO MICROB PATHOG, (1990) 9 (1), 13-18.  
CODEN: MIPAEV. ISSN: 0882-4010.

L8 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Characterization of a novel human **respiratory syncytial**  
virus chimeric FG glycoprotein expressed using a baculovirus vector  
AU Wathen, M. W.; Brideau, R. J.; Thomsen, D. R.; Murphy, B. R.  
SO Journal of General Virology (1989), 70(10), 2625-35  
CODEN: JGVIAI; ISSN: 0022-1317

L8 ANSWER 20 OF 26 MEDLINE on STN DUPLICATE 12  
TI The 1A protein of **respiratory syncytial** virus is an  
integral membrane protein present as multiple, structurally distinct  
species.  
AU Olmsted R A; Collins P L  
SO JOURNAL OF VIROLOGY, (1989 May) 63 (5) 2019-29.  
Journal code: 0113724. ISSN: 0022-538X.

L8 ANSWER 21 OF 26 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. on STN  
TI Alkaline phosphatase fusions to the **respiratory**  
**syncytial** virus F protein as an approach to analyze its membrane  
topology.  
AU Martin-Gallardo A.; Deich R.A.; Fien K.A.; Metcalf B.J.; Anilionis A.;  
Paradiso P.R.  
SO DNA, (1989) 8/9 (659-667).  
ISSN: 0198-0238 CODEN: DNAADR

L8 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 13  
TI Recognition of **respiratory syncytial** virus fusion  
protein by mouse cytotoxic T cell clones and a human cytotoxic T cell line  
AU Cannon, M. J.; Bangham, C. R. M.  
SO Journal of General Virology (1989), 70(1), 79-87  
CODEN: JGVIAI; ISSN: 0022-1317

L8 ANSWER 23 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 14  
TI EXPRESSION OF THE F GLYCOPROTEIN OF **RESPIRATORY**  
**SYNCYTIAL** VIRUS BY A RECOMBINANT VACCINIA VIRUS COMPARISON OF THE

INDIVIDUAL CONTRIBUTIONS OF THE F AND G GLYCOPROTEINS TO HOST IMMUNITY.

- AU OLMSTED R A; ELANGO N; PRINCE G A; MURPHY B R; JOHNSON P R; MOSS B;  
CHANOCK R M; COLLINS P L  
SO PROC NATL ACAD SCI U S A, (1986) 83 (19), 7462-7466.  
CODEN: PNASA6. ISSN: 0027-8424.
- L8 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 15  
TI Human and murine cytotoxic T cells specific to **respiratory**  
**syncytial** virus recognize the viral nucleoprotein (N), but not the  
major glycoprotein (G), expressed by vaccinia virus recombinants  
AU Bangham, Charles R. M.; Openshaw, Peter J. M.; Ball, L. Andrew; King,  
Andrew M. Q.; Wertz, Gail W.; Askonas, Brigitte A.  
SO Journal of Immunology (1986), 137(12), 3973-7  
CODEN: JOIMA3; ISSN: 0022-1767
- L8 ANSWER 25 OF 26 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
TI RESISTANCE TO HUMAN **RESPIRATORY SYNCYTIAL** VIRUS  
INFECTION INDUCED BY IMMUNIZATION OF COTTON RATS WITH A RECOMBINANT  
VACCINIA VIRUS EXPRESSING THE **RESPIRATORY SYNCYTIAL**  
VIRUS G GLYCOPROTEIN.  
AU ELANGO N; PRINCE G A; MURPHY B R; VENKATESAN S; CHANOCK R M; MOSS B  
SO PROC NATL ACAD SCI U S A, (1986) 83 (6), 1906-1910.  
CODEN: PNASA6. ISSN: 0027-8424.
- L8 ANSWER 26 OF 26 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. on STN  
TI Antiviral effect of flavonoids on human viruses.  
AU Kaul T.N.; Middleton Jr. E.; Ogra P.L.  
SO Journal of Medical Virology, (1985) 15/1 (71-79).  
CODEN: JMVIDB

L8 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1994:24950 CAPLUS

DN 120:24950

TI Rescue of synthetic helper-dependent analogs of the genomic RNAs of  
**respiratory syncytial** virus and parainfluenza virus type

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AU Collins, Peter L.; Stec, David S.; Kuo, Lili; Hill, Myron G., III;  
Camargo, Ena; Dimock, Kenneth; Grosfeld, Haim; Mink, Michael A.

CS Lab. Infect. Dis., Natl. Inst. Health, Bethesda, MD, 20892, USA

SO Vaccines 93, [Annu. Meet.], 10th (1993), Meeting Date 1992, 259-64.

Editor(s): Ginsberg, Harold S. Publisher: Cold Spring Harbor Lab., Cold  
Spring Harbor, N. Y.

CODEN: 59HUAJ

DT Conference

LA English

AB The **chimeric paramyxovirus**-CAT vRNA analogs represent  
a new exptl. approach that should allow for the first time a complete  
dissection of the cis-acting sequences in the vRNA of a neg.-strand virus.  
Recently, a closely similar system was described for the  
**paramyxovirus** Sendai virus. It seems likely that the system  
described here can be expanded such that cDNA-encoded complete synthetic  
vRNAs can be rescued for the prodn. of complete infectious virus. The  
rescue of the half-size RSV-CAT-L vRNA was an important demonstration that  
synthetic vRNAs probably can be encapsidated, even in presynthesized form,  
and introduced into the viral replicative cycle. The **RSV** and  
PIV3 vRNAs appeared to readily accept the **insertion** of foreign  
sequences (the CAT **gene**) while retaining the ability to  
transcribe, replicate, and incorporate into virions. The mRNA-encoding  
**gene** segments are flanked by highly conserved, circumscribed  
transcription signals, but otherwise, at least for RSV, they do not appear  
to have any particular structural requirements and are highly amenable to  
engineering. Both RSV and PIV3 direct abundant mRNA and protein  
synthesis.